# FlameGard® 5
# MSIR Flame Detector

**MSA** The Safety Company

*MSA's FlameGard 5 MSIR Detector is an advanced multi-spectrum flame detector designed to provide more data, increased detection distances, excellent immunity to false alarms, faster response times and better performance under various environmental conditions.*

| FEATURES | BENEFITS |
|---|---|
| MULTI-SPECTRUM IR (MSIR) SENSOR ARRAY | Uses a four sensor array; two sensors look for distinct IR frequencies in the CO2 spike of a fire, while the other two sensors are designed to eliminate false alarms.<br><br>100 degree cone of vision that detects a 1 sq. ft. fire at 230 feet.<br><br>Provides increased range of up to 230 feet, and a wide field of view.<br><br>Response time of <10 seconds for rapid detection and alarming.<br><br>Arc welding minimum immunity distance 5-15 feet.<br><br>Greater range and wider field of view reduces the number of detectors necessary in many applications, thereby cutting total installation costs |
| NEURAL NETWORK TECHNOLOGY (NNT) | An intelligent technology with the key element being the ability to be trained to differentiate between real threats and normal events, resulting in exceptionally reliable flame protection with superior false-alarm immunity.<br><br>Accurately discriminates between actual flames and nuisance false alarm sources (such as those caused by lightning, arc-welding, hot objects and other sources of radiation). |
| STAINLESS STEEL HOUSING | Explosion-proof stainless steel housing for corrosive and marine environments |
| CONTINUOUS OPTICAL PATH MONITORING (COPM) | Checks both the optical path integrity (window cleanliness) and the detector's electronic circuitry once every minute to ensure accurate monitoring. |
| MULTIPLE COMMUNICATION OUTPUTS | |
| DUAL-REDUNDANT MODBUS | Communicates via RS-485 interface for remote operation;  registers provide alarm status, fault and other information for operating, troubleshooting or programming the unit.<br><br>Serial communication port(s) allow up to 128 units (247 using repeaters) to be linked to a host computer using the ModBus RTU protocol. |
| 0-20MA OUTPUT | Digital communication signal super-imposed on the mA analog signal. |
| HART | Industry standard output signal for communication with remote alarms. |
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| EVENT LOGGING | This standalone diagnostic tool records time, date and type of event. |
| TEST LAMP | Gives the ability to check and ensure our product can do what it's supposed to do; detect a fire. |
| APPLICATION VERSATILITY | This flame detector is a cost effective tool to protect lives and inventory making it ideally suited for the following applications:<br>• Drilling and Production Platforms<br>• LNG/LPG Processing and Storage Facilities<br>• Fuel Loading Facilities<br>• Compressor Stations<br>• Aircraft Hangars<br>• Refineries<br>• Chemical Plants |

*Because every life has a **purpose...***